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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/389,841	09/03/1999	LARS G. SVENSSON	18036-12	5947

33401 7590 05/29/2003

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EXAMINER

TRAN, HENRY N

ART UNIT PAPER NUMBER

2674

DATE MAILED: 05/29/2003

14

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

09/389,841

Applicant(s)

SVENSSON ET AL.

Examiner

HENRY N. TRAN

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 17 January 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-74 is/are pending in the application.
- 4a) Of the above claim(s) 36-53, 56, 57 and 62-74 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-35, 54, 55 and 58-61 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 03 September 1999 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☒ The proposed drawing correction filed on 17 January 2003 is: a) ☒ approved b) ☐ disapproved by the Examiner.  
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

### Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
\* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☒ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

### Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 11.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

### **DETAILED ACTION**

This Office action is in response to the applicant's amendment filed 1/17/03 (paper no. 13). The amendments to the claims and applicant's remarks were considered, with the results set forth as following.

1. Claims 1-35, 54-55, and 58-61 are pending in this application.

#### ***Information Disclosure Statement***

2. The examiner has considered the references listed in the information disclosure statement (IDS) filed 1/17/03 (Paper No. 11) (see the attached form PTO-1449).

#### ***Drawings***

3. The formal drawings filed on 1/17/03 (paper no. 11) have been accepted approved by the examiner. However, The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the: "liquid crystal elements", "one or more other capacitances", "a first one of the capacitive elements", "a/one portion of the other capacitances", "a current through the line associated with the first one of the capacitive elements", "recovering energy from the portion of ...without at the same time ...of the first capacitive elements" (claims 1 and 13); "or from the capacitive elements that are associated with the liquid crystal elements that are in the same row ...the first one of the capacitive elements" (claim 13); "a first time period" and "a second time period" (claim 25); "one or more other capacitances", "the plurality of pixels of a display", and "the charge stored in the one of the plurality of pixels of a display" (claim 54); and "a plurality of liquid crystal elements arranged in a matrix of rows and columns", "one or more other capacitances", "the line also driving one or more other capacitances", "a storage device", "a first voltage regulator", and

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“a second voltage regulator” (claim 58) must be shown or the features canceled from the claims.

No new matter should be entered.

Note: Different reference characters (claim terms) used to designate the same feature are not permitted. Applicants are required to review the claim languages for identifying the claim terms, which must be supported in the specification and in the drawings.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

***Claim Rejections - 35 USC § 112***

4. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

5. Claims 1-35, 54-55, and 58-61 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claims contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The following claimed limitations was not properly described in the specification: “one or more other capacitances”, “a first one of the capacitive elements”, “one portion of the other capacitances”, “recovering energy from the portion of ... without at the same time ... of the first capacitive elements”; “or from the capacitive elements that are associated with the liquid crystal elements that are in the same row ... the first one of the capacitive elements”, “a first time period”, and “a second time period” (claims 1, 13, 25, 54, and 58). The examiner is unclear what constitutes the

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claimed limitations: "one or more other capacitances" and "the portion of other capacitances".

The examiner is therefore unable to determine the scope of the claimed invention sought to be patent.

6. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

7. Claims 1-35, 54-55, and 58-61 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The specification fails to provide proper antecedent basis for the following claimed subject matter: "one or more other capacitances", "a first one of the capacitive elements", "one portion of the other capacitances", "recovering energy from the portion of ... without at the same time ... of the first capacitive elements"; "or from the capacitive elements that are associated with the liquid crystal elements that are in the same row ... the first one of the capacitive elements", "a first time period", and "a second time period" (claims 1, 13, 25, 54, and 58).

The examiner is unable to provide rejection(s) under prior art until the rejections under 35 U.S.C. 112, first and second paragraphs discussed above overcome.

### ***Response to Arguments***

8. Applicant's arguments, see the Amendment, filed 1/17/03, with respect to the rejections of claims 1-35, 54-55 and 58-61 have been fully considered; wherein the statement: "with respect to the "other capacitances", these are stray capacitances of the non elected FETs 49 and 53 shown in Fig. 1.....These collective capacitances are further ... on page 9 of the specification" defined in the third paragraph of page 3 of the above identified amendment is still unclear;

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because, e.g. in Fig. 13, what constitutes the "other capacitances" and the "one portion of the other capacitances". Upon further consideration, a new grounds of rejection is made as discussed above.

Examiner's suggestion: applicants must provide a clear definitions of: "other capacitance", "a portion of the other capacitance", etc.. (which may comprise: intrinsic, extrinsic, parasitic, stray, collective, or gap capacitances); and should illustrated by drawings.

### ***Conclusion***

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to HENRY N. TRAN whose telephone number is (703) 308-8410. The examiner can normally be reached on Mon - Fri from 8:00AM - 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, RICHARD A. HJERPE, can be reached at (703) 305-4709.

**Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks

Washington, D.C. 20231

**or faxed to:**

**(703) 872-9314 (for technology Center 2600 only)**

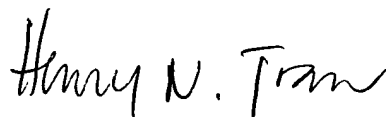
Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office Whose telephone number is (703) 306-0377.

A handwritten signature in black ink that reads "Henry N. Tran". The signature is written in a cursive, flowing style.

HENRY N. TRAN  
Examiner  
Art Unit 2674

hnt  
May 21, 2003